

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL	
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person * Arch Venture Fund VII LP			2. Issuer Name and Ticker or Trading Symbol Syros Pharmaceuticals, Inc. [SYRS]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)		
(Last) 8755 WEST HIGGINS ROAD, SUITE 1025	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 07/06/2016			6. Individual or Joint/Group Filing (Check Applicable Line) <input type="checkbox"/> Form filed by One Reporting Person <input checked="" type="checkbox"/> Form filed by More than One Reporting Person		
(Street) CHICAGO, IL 60631			4. If Amendment, Date Original Filed (Month/Day/Year)					
(City)	(State)	(Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned					

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	07/06/2016		C		266,666	A	(1)	479,999	D (5)	
Common Stock	07/06/2016		C		1,333,333	A	(2)	1,813,332	D (5)	
Common Stock	07/06/2016		C		2,000,000	A	(3)	3,813,332	D (5)	
Common Stock	07/06/2016		C		423,805	A	(4)	4,237,137	D (5)	
Common Stock	07/06/2016		P		400,000	A	\$ 12.5	4,637,137	D (5)	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Series A-1 Preferred Stock	(1)	07/06/2016		C		1,000,000	(1)	(1)	Common Stock	266,666	\$ 0	0	D (5)	
Series A-2 Preferred Stock	(2)	07/06/2016		C		5,000,000	(2)	(2)	Common Stock	1,333,333	\$ 0	0	D (5)	
Series A-3 Preferred Stock	(3)	07/06/2016		C		7,500,000	(3)	(3)	Common Stock	2,000,000	\$ 0	0	D (5)	
Series B Preferred Stock	(4)	07/06/2016		C		1,589,269	(4)	(4)	Common Stock	423,805	\$ 0	0	D (5)	

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Arch Venture Fund VII LP 8755 WEST HIGGINS ROAD, SUITE 1025 CHICAGO, IL 60631		X		
ARCH Venture Partners VII, L.P. 8755 WEST HIGGINS ROAD, SUITE 1025 CHICAGO, IL 60631		X		
ARCH Venture Partners VII, LLC 8755 WEST HIGGINS ROAD, SUITE 1025 CHICAGO, IL 60631		X		

CRANDELL KEITH 8755 WEST HIGGINS ROAD, SUITE 1025 CHICAGO, IL 60631		X		
BYBEE CLINTON 8755 WEST HIGGINS ROAD, SUITE 1025 CHICAGO, IL 60631		X		

Signatures

ARCH Venture Fund VII, L.P. By: ARCH Venture Partners VII, L.P. By: /s/Mark McDonnell, as Attorney-in-Fact for Keith Crandell, the Mngng Dir of ARCH VII LLC, the GP of ARCH Partners VII, the GP of ARCH Fund VII Name: Mark McDonnell Title: Attorney-in fact		07/06/2016
<i>**Signature of Reporting Person</i>		Date
ARCH Venture Partners VII, L.P. By: ARCH Venture Partners VII, LLC By: /s/ Mark McDonnell as Attorney-in-Fact for Keith Crandell, the Managing Director of ARCH VII LLC, the general partner of ARCH Partners VII Name: Mark McDonnell Title: Attorney-in fact		07/06/2016
<i>**Signature of Reporting Person</i>		Date
ARCH Venture Partners VII, LLC By: /s/ Mark McDonnell as Attorney-in-Fact for Keith Crandell, the Managing Director of ARCH VII LLC Name: Mark McDonnell Title: Attorney-in fact		07/06/2016
<i>**Signature of Reporting Person</i>		Date
/s/ Mark McDonnell, as Attorney-in-Fact for Keith Crandell Keith Crandell		07/06/2016
<i>**Signature of Reporting Person</i>		Date
/s/ Mark McDonnell, as Attorney-in-Fact for Clinton Bybee		07/06/2016
<i>**Signature of Reporting Person</i>		Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

- (1) The Series A-1 Preferred Stock converted into Common Stock on a 3.75-for-one basis upon the closing of the Issuer's initial public offering without payment of consideration. The Series A-1 Preferred Stock was convertible at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering. The shares had no expiration date.
- (2) The Series A-2 Preferred Stock converted into Common Stock on a 3.75-for-one basis upon the closing of the Issuer's initial public offering without payment of consideration. The Series A-2 Preferred Stock was convertible at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering. The shares had no expiration date.
- (3) The Series A-3 Preferred Stock converted into Common Stock on a 3.75-for-one basis upon the closing of the Issuer's initial public offering without payment of consideration. The Series A-3 Preferred Stock was convertible at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering. The shares had no expiration date.
- (4) The Series B Preferred Stock converted into Common Stock on a 3.75-for-one basis upon the closing of the Issuer's initial public offering without payment of consideration. The Series B Preferred Stock was convertible at any time at the holder's election and automatically upon the closing of the Issuer's initial public offering. The shares had no expiration date. These shares are owned directly by ARCH Venture Fund VII, L.P. ("ARCH Fund VII"). The sole general partner of ARCH Fund VII is ARCH Venture Partners VII, L.P. ("ARCH Partners VII"). The sole general partner of ARCH Partners VII is ARCH Venture Partners VII, LLC ("ARCH VII LLC"). The Managing Directors of ARCH VII LLC, Robert T. Nelsen,
- (5) Keith Crandell and Clinton Bybee, are deemed to have voting and dispositive power over the shares and may be deemed to beneficially own certain shares held by ARCH Fund VII. Each Reporting Person disclaims beneficial ownership of these securities, except to the extent of his pecuniary interest therein, and this report shall not be deemed an admission that such Reporting Persons are the beneficial owners of such securities for Section 16 or any other purpose.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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